

# Missouri Department of Natural Resources

## **PUBLIC NOTICE**

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: September 29, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMd, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see <u>Curdt v. Mo. Clean Water Commission</u>, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by <u>October 29, 2006</u> or received in our office by 5:00 p.m. on <u>November 1, 2006</u>. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <a href="http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm">http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm</a> or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: September 29, 2006 Permit Number: MO-0084930 St. Louis Regional Office						
FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER					
Woodglen Apartments RR 2, Arnold, MO 63010	Woodglen Apartments Association, LLC 12967 Maurer Industrial Drive Sunset Hills, MO 63127					
RECEIVING STREAM & LEGAL DESCRIPTION	TYRE OF DISCHARGE					
Tributary to Romaine Creek SE ¼, NW ¼, NE ¼, Sec 22, T43N, R5E  Jefferson County	Demestic; Reissue					

# STATE OF MISSOURI

# DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



# MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clear Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-300, 92nd Congress) as amended,

Permit No. Mo-0084930

Owner: Woodglen Apartments Associates, LLC

Address: 12967 Maurer Industrial Drive, Sunset Hills, MO 63127

Continuing Authority: Same as above Address: Same as above

Facility Name: Woodglen Apartments
Facility Address: R.R. #2, Arnold, MO 63010

Legal Description: SE<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>, Sec. 22, T43N, R5E; Jefferson County

Latitude/Longitude: +3827142/-09026346

Receiving Stream: Tributary to Romaine Creek (U) (Losing)

First Classified Stream and ID: Saline Creek (P)(02189) USGS Basin & Sub-watershed No.: (07140102 - 080004)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements

as set forth herein:

## **FACILITY DESCRIPTION**

Outfall #001 – Subdivision - SIC # 4952

Extended aeration/ sludge holding tank/ sock filters/ chlorination/ sludge disposal by contract hauler.

Design population equivalent is 120.

Design flow is 9,500 gallons per day.

Actual flow is 3,000 gallons per day.

Design sludge production is 2.16 dry tons/year.

Actual sludge production is 0.93 dry tons per year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date	Doyle Childers, Director, Department of Natural Resources Executive Secretary, Clean Water Commission
Expiration Date	Mike Struckhoff., Director, St. Louis Regional Office

#### PAGE NUMBER 2 of 5

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0084930

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until March 31, 2008. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		INTERIM EFFLUENT LIMITAPIONS		MONITORING	REQUIREMENTS	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEBSEY AMERAGE	MONTHLE AVENAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001						
Flow	Med			*	Once/month	24 hr est.
Biochemical Oxygen Demand <sub>5</sub>	WELL.		15	10	Once/quarter**	Note 1
Total Suspended Solids	mgL		20	15	Once/quarter**	Note 1
Temperature	°C	*		*	Once/quarter**	grab
pH – Units ***	SU	6-9		6-9	Once/quarter**	grab
Ammonia Nitrogen	mg/L	*		*	Once/quarter**	grab
Fecal Coliform	****	1000		400	Once/quarter**	grab
Total Residual Chlorine (TRC)(Note 2)	mg/l	1.0		1.0	Once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE \_\_\_\_\_\_. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

#### **B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* Sample once per quarter in the months of February, May, August, and November.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\* Colonies per 100mL, whenever there is a discharge.

Note 1– A composite sample made up from a minimum of four grab samples collected within a twenty four (24) hour period with a minimum of two (2) hours between each grab sample.

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (b) Do not chemically dechlorinate if it is not needed to meet the limits in your permit.
- (c) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

# PAGE NUMBER 3 of 5

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0084930

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective **April 1, 2008** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OLUMBALL MUMDED AND EEEL HENT		FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001						
Flow	MGD	*			Once month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub>	mg/L		15		Once/quarter**	Note 1
Total Suspended Solids	mg/L		V 50	15	Once/quarter**	Note 1
Temperature	°C/			*	Once/quarter**	grab
pH – Units ***	SU			6—9	Once/quarter**	grab
Ammonia Nitrogen	reg/L)	*		*	Once/quarter**	grab
Fecal Coliform	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1000		400	Once/quarter**	grab
Total Residual Chlorine (Note 2)	mg/l	.019 (.13ML)		.010 (.13ML)	Once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

THERE SHALL BE NO

## **B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

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- \* Monitoring requirement only.
- \*\* Sample once per quarter in the months of February, May, August, and November.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\* Colonies per 100mL, whenever there is a discharge.

Note 1– A composite sample made up from a minimum of four grab samples collected within a twenty four (24) hour period with a minimum of two (2) hours between each grab sample.

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate if it is not needed to meet the limits in your permit.
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

## C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
- 4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels."
  - (1) One hundred micrograms per liter (100  $\mu$ g/L);
  - Two hundred micrograms per liter (200 μg/L) for acrolein and across neither five hundred micrograms per liter (500 μg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported from any period and in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an exercisediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- (b) That the effluent limit established in part A of the permit will be exceeded.
- 5. Report as no-discharge when a discharge doe not secur during the report period.

## 6. Water Quality Standards

- (a) Discharges to waters of the state shall met cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (a) General Criteria. The following receral water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (7) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

# C. SPECIAL CONDITIONS (continued)

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

(a) Permittee shall comply with the pollutant limitations, properties, and other requirements in accordance with the attached permit Standard Conditions.

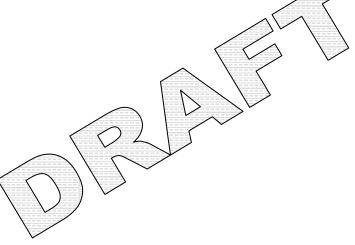
(b) If sludge is not removed by a contract hauler permitted is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as committee on a case-by-case basis.

# D. Schedule of Compliance

1. The final daily maximum and monthly average Total Residual Chlorine limits of 0.19mg/L and .010mg/L, respectively, shall become effective on **April 1, 2008** 

1. By <u>February 1, 2007</u>, submit plans and specifications (prepared by a registered professional engineer licensed to practice in Missouri), application and appropriate fee for a construction permit to improve the existing treatment facility or eliminate the discharge.

2. By <u>April 1, 2008</u>, this project must be completed according to the approved plans and specifications, and the final effluent limitations must be met.



Date of Fact Sheet: May 5, 2006

Date of Public Notice: September 29, 2006

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0084930

FACILITY NAME: Woodglen Apartments

OWNER NAME: Woodglen Apartments Association, LLC

LOCATION: SE<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>, Sec. 22, T43N, R5E; Jefferson County:

RECEIVING STREAM: Tributary to Romaine Creek (Losing)

FACILITY CONTACT PERSON: Interstate Property Services (Managing Agent)

TELEPHONE: (314) 843 - 7100

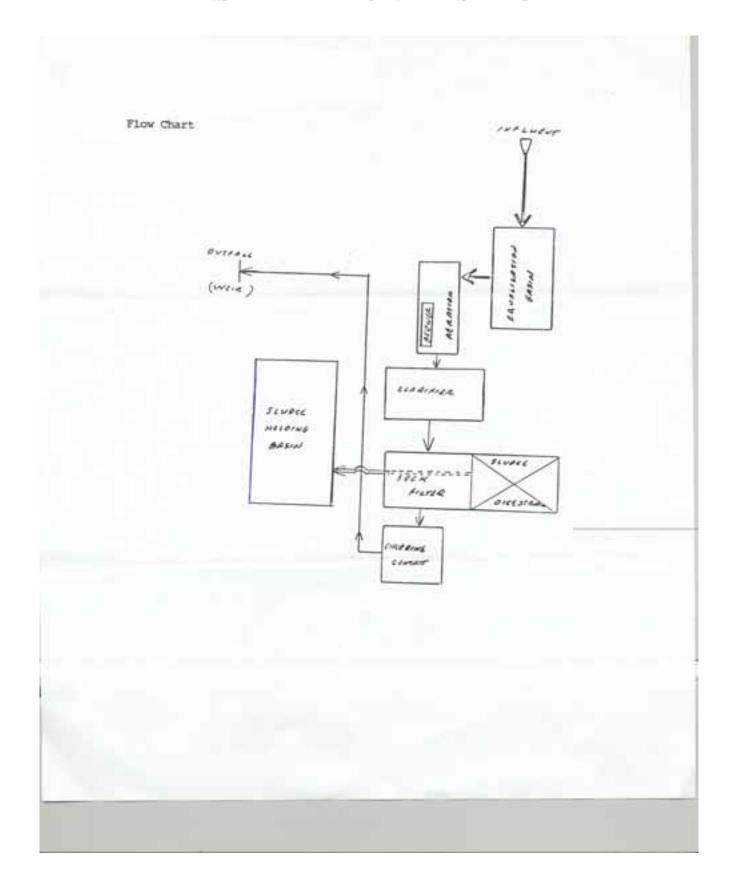
#### FACILITY DESCRIPTION AND RATIONALE

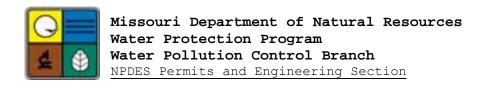
This facility was built in 1971 under cp#22-523. The facility consists of a Smith & Loveless extended aeration, a sludge holding tank, sock filtration and chlorination (the chlorination and sock filter were added to the system in 1999 under CP#22-5642) Sludge is removed by a contract hauler. The design flow for this facility is 9,500 gallons per day. The average flow for the system over the past two years was 3,000 gallons per day. The effluent discharges to a tributary of the unclassified Romaine Creek (a losing stream) and flows about 2.5 miles downstream to Saline Creek (a class P stream). An upper section of Saline Creek (above the Romaine Creek confluence) is on the 303(d) list. 10 CSR 20-7.05(4)(B)5 states that "all chlorinated effluent discharges to losing streams [] shall also be dechlorinated prior to discharge. The facility has reported Total Residual Chlorine in previous discharge monitoring reports (existing permit requires that they meet (RC of 1.0 mg.l.) The facility would be unable to meet the current limitations for Total Residual Chlorine. In order to allow time for the facility to come into compliance with the final limitations, interim limits and a schedule of compliance is being included.

As a result of the discharge to a "losing stream" standard technology-based limits as stated in 10 CSR 20-7.015 (4) for BOD5, TSS, pH, fecal coliform and total residual chlorine (TRC) are believed necessary to protect the receiving stream. Ammonia and temperature have been added as monitoring requirements to determine if there is "reasonable potential" to violate state water quality standards for those parameters. The permit should contain a reopener clause should the data generated by this permit, or other monitoring data, indicate that state water quality standards are being exceeded, due at least in part, to this discharge.

This permit will be issued for a period of <u>five</u> years.

# **INSERT MAP ON THIS PAGE**





# Water Quality Review Sheet Facilities with Design Flow < 22,500 gpd

Determination of Effluent Limits

			Facility Informatio	n	
FACILITY NAME:	<u> </u>	Noodglen	Apartments	PERMIT MO-(	0084930
FACILITY TYPE/DESC	RIPTIO	N <b>:</b>	Secondary/ extended aerat sock filters/ chlorination	-	
Ecological (EDU):	L Drain	NAGE UNIT	,	71401 COUNTY: Jeffe	rson
LEGAL DESCRIPTIO	on:	SE¼, 1 T43N,	NW¼, NE¼, Sec22, Latitude/ R5E :	LONGITUDE +3827142/- 09026346	
Water Quai	LITY H		Two violations for non-repolarters in 2004  Outfall Characteris		ers) 2
OUTFALL	DESI	IGN FLOW	TREATMENT TYPE	EFFLUENT TYPE	
001	(GPD)				
	, a fo	ermal water	22,500 gpd or effluent type is quality review sheet  Receiving Waterbody Inf	not municipal or domest	ic
Waterbody	Name:		ary to Romaine Creek (los.		s U
Waterbody	 Class :	P P			
Discharge or as det			two (2) miles of a losing st	ream (10 CSR 20-7.031	, Table J

Discharge to or within two body contact recreation	_ ` `	s of a (	classified	waterbody	designated	ior	whole
Use Attainability Analysis	s Conducte	d 🗌					
If the facility discharges to any of the specific water quality impact study has				1	rapid developme	nt, or if	f a site-
Lake/Reservoir 🗌 Stream 🗌	303(d) W	aterboo	dy 🗌	Metropo	litan No-D	isch	arge
Outstanding National/St	ate Resou	rce Wat	ter and D	rainages I	hereto 🗌		

# **Permit Limits and Information**

## OUTFALL #001

DISCHARGE TO OR WITHIN TWO (2) MILES OF A LOSING STREAM

DADAMEMED	IINTEG	DAILY	Weekly	MONTHLY	Monitoring
PARAMETER	UNITS	MAXIMUM	Average	Average	FREQUENCY
FLOW	GPD	*		*	Once/Month
Temperature	° C	*		*	Once/Month
BoD <sub>5</sub>	MG/L		15	10	Once/Month
TSS	MG/L		20	15	Once/Month
PН	S.U.	6 - 9		6 - 9	Once/Month
Ammonia as N	MG/L	*		*	Once/Month
FECAL COLIFORM	Note 1	1000		400	Once/Month
TRC	MG/L	0.019		0.010	Once/Month

Note 1 - Colonies/100 mL, \* - Monitoring Requirement Only

Please report the date, time, and location for each parameter sampled along with the average daily flow (actual flow measured or estimated, not design flow). All the parameters should be sampled on the same day and within no more than a 2-hour period. If discharge is contingent on storm events, rainfall should be measured every time there is a discharge.

# **Derivation and Discussion of Limits**

- Biochemical Oxygen Demand (BOD<sub>5</sub>) 10 CSR 20-7.015(4)(B)1.
- Total Suspended Solids (TSS) 10 CSR 20-7.015(4)(B)2.
- **pH** 10 CSR 20-7.015(4)(B)3.
- Ammonia as Nitrogen Monitoring Requirement Only.
- Fecal Coliform 10 CSR 20-7.015(4)(B)4.
- Total Residual Chlorine (TRC) Effluent limitation for the protection of aquatic life against acute toxicity [10 CSR 20-7.031(3) (I) 1.]

Standard losing stream effluent limitations for  $BOD_5$ , TSS, pH, and fecal coliform are required due to discharge to or within two (2) miles of a losing stream. Monitoring for temperature and ammonia are included to

determine whether "reasonable potential" to exceed water quality standards exists after the discharge begins. Permit will contain a "reopener clause" to address potential water quality issues should this or other monitoring or observations indicate water quality standards may be exceeded or if existing designated uses may be negatively impacted due either in whole or in part to this discharge. Should chlorine be used at this facility, the effluent shall be dechlorinated to meet the above referenced limits.

Reviewer: Ed Pate

Date: May 5, 2006 Approver: Refaat Mefrakis